

### Abstract of the Disclosure

The invention relates to a method for controlling and/or adjusting a welding process, using a melting welding wire (13) wherein after ignition of an electric arc, a welding process is carried out, the welding process being adjusted on the basis of several different welding parameters and being controlled or adjusted by a control device and/or welding current source. In order to determine the position of distance between the end of the welding wire (13) and the workpiece (16), which is to be processed, in a manner which is as accurate as possible, at least one mechanical adjustment process (41) is carried out during the welding process, enabling the position of said welding wire (13) being used as a sensor.